

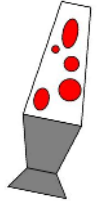
Name: \_\_\_\_\_

Section: \_\_\_\_\_

## Density - Real-Life Scenarios

Directions: We have recently discussed density and how to perform density calculations. Apply your understanding of density to thoroughly explain the following scenarios.

1. One day in science class Tara notices a lava lamp in the back corner and she asks the teacher to put it on. She never really saw one before and she was curious about how it works. The teacher agrees to plug it in and after some time Tara notices the "lava" moving up and down. Explain why the "lava" behaved in this manner.



2. Jimmy does a cannonball into the swimming pool. After surfacing and floating around for a few seconds he observes something interesting. He notices that if he takes a deep breath his body seems to float more. Also, he notices that if he breathes out his body floats less, or he sinks into the water. Explain why this is happening to Jimmy.

